P-2
W.5

BRUHATH BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB-DIVISION

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost :- 200.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

DETAILED COST ESTIMATE

Estimate Cost : Rs.200.00 Lakhs

SL NO	PARTICULARS	UNIT	NO	MEASUREMENT			QUANTITY	RATE	AMOUNT
				LENGTH	BREADTH	DEPTH			
1	Removing and resetting of footpath slab (Approved arrival rate)								
	i] Shabari Nagara								
	1st Main	Sqm	2.00	100.00	0.90		180.00		
	1st Cross	Sqm	2.00	100.00	0.90		180.00		
	2nd Cross	Sqm	2.00	100.00	0.90		180.00		
	3rd Cross	Sqm	2.00	100.00	0.90		180.00		
	3rd Cross 2 Roads	Sqm	2.00	200.00	0.90		360.00		
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	2.00	1250.00	0.90		2250.00		
	Hundi Factory Road	Sqm	2.00	100.00	0.90		180.00		
	HDFC Bank Road	Sqm	2.00	100.00	0.90		180.00		
	Rama Temple Road	Sqm	2.00	100.00	0.90		180.00		
	Janatha Colony Roads	Sqm	2.00	200.00	0.90		360.00		
					Total		4230.00		
	Consider 70%				**Sub Total**		**2961.00**		
	Deduct 20% Missing Slabs						592.2		
					Sub Total A		**2368.8**		
	Culverts	Sqm	15.00	6.00	1.50		135.00		
					Sub Total		**135.00**		
	Deduct 20% Missing Slabs						27.00		
					Sub Total B		**108.00**		
					Total A+B		**2476.80**	**235.00**	**582048.00**
	Data Rate	**235.00**							
2	Dismantling of cement concrete pavement, Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately [PWD SR 2023-24/ Volume-3/ Chapter-2/P.NO-12/ Item no:-2.19/Ref. to MoRT&H : IRC 202]								
	i] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	1.00	400.00	4.50	0.20	360.00		
	Hundi Factory Road	Cum	1.00	25.00	4.00	0.20	20.00		
	Ananda Mane Road	Cum	1.00	56.00	3.00	0.20	33.60		
	Rama Temple Road	Cum	1.00	60.00	4.50	0.20	54.00		
	ii] Ambedkar Colony								
	1st Cross	Cum	1.00	45.00	2.50	0.20	22.50		
	2nd Cross	Cum	1.00	45.00	2.50	0.20	22.50		
	3rd Cross	Cum	1.00	45.00	2.50	0.20	22.50		
	4th Cross	Cum	1.00	45.00	2.50	0.20	22.50		
	5th Cross	Cum	1.00	45.00	2.50	0.20	22.50		
	Culverts	Cum	15.00	6.00	1.80	0.20	32.40		
					Total		**612.50**	**619.30**	**379321.25**
	Basic Rate	**563.00**							
	Add AW 10%	56.30							

	Total	**619.30**							
3	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-5/ Item no:-1.4.1]								
		Drain Disilting							
	i] Shabari Nagara								
	1st Main	Cum	2.00	100.00	0.60	0.45	54.00		
	1st Cross	Cum	2.00	100.00	0.60	0.45	54.00		
	2nd Cross	Cum	2.00	100.00	0.60	0.45	54.00		
	3rd Cross	Cum	2.00	100.00	0.60	0.45	54.00		
	3rd Cross 2 Roads	Cum	2.00	200.00	0.60	0.45	108.00		
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	2.00	1250.00	0.60	0.45	675.00		
	Hundi Factory Road	Cum	2.00	100.00	0.60	0.45	54.00		
	HDFC Bank Road	Cum	2.00	100.00	0.60	0.45	54.00		
	Rama Temple Road	Cum	2.00	100.00	0.60	0.45	54.00		
	Janatha Colony Roads	Cum	2.00	200.00	0.60	0.45	108.00		
	Culvert Disilting	Cum	15.00	6.00	0.90	0.50	40.50		
	New RCC Culverts	Cum	6.00	6.00	1.80	1.00	64.80		
					Total		**1374.30**	**266.20**	**365838.66**
	Basic Rate	**242.00**							
	Add AW 10%	24.20							
	Total	**266.20**							
4	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications[PWD SR 2023-24/ Volume-2/ Chapter-6/P.NO-17/ Item no:-6.33]								
		Flagging Course							
	i] Shabari Nagara								
	1st Main	Sqm	2.00	100.00		0.20	40.00		
	1st Cross	Sqm	2.00	100.00		0.20	40.00		
	2nd Cross	Sqm	2.00	100.00		0.20	40.00		
	3rd Cross	Sqm	2.00	100.00		0.20	40.00		
	3rd Cross 2 Roads	Sqm	2.00	200.00		0.20	80.00		
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	2.00	1250.00		0.20	500.00		
	Hundi Factory Road	Sqm	2.00	100.00		0.20	40.00		
	HDFC Bank Road	Sqm	2.00	100.00		0.20	40.00		
	Rama Temple Road	Sqm	2.00	100.00		0.20	40.00		
	Janatha Colony Roads	Sqm	2.00	200.00		0.20	80.00		
					Total		**940.00**		
	Consider 70%						**658.00**	**1354.10**	**890997.80**
	Basic Rate	**1231.00**							
	Add AW 10%	123.10							
	Total	**1354.10**							

5	Providing ruled pointing to coursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as per specification.[PWD SR 2023-24/ Volume-2/ Chapter-21/P.NO-214/ Item no:-21.10]								
		Flagging Course							
	i] Shabari Nagara								
	1st Main	Sqm	1.00	100.00		0.60	60.00		
	1st Cross	Sqm	1.00	100.00		0.60	60.00		
	2nd Cross	Sqm	1.00	100.00		0.60	60.00		
	3rd Cross	Sqm	1.00	100.00		0.60	60.00		
	3rd Cross 2 Roads	Sqm	1.00	200.00		0.60	120.00		
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	1.00	1250.00		0.60	750.00		
	Hundi Factory Road	Sqm	1.00	100.00		0.60	60.00		
	HDFC Bank Road	Sqm	1.00	100.00		0.60	60.00		
	Rama Temple Road	Sqm	1.00	100.00		0.60	60.00		
	Janatha Colony Roads	Sqm	1.00	200.00		0.60	120.00		
					Total		**1410.00**		
	Consider 70%						**987.00**	**328.90**	**324624.30**
	Basic Rate	**299.00**							
	Add AW 10%	29.90							
	Total	**328.90**							
6	Providing and laying in position Cement Concrete for **levelling course** for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. **Mix 1:2:4 Using 20 mm nominal size graded crushed coarse aggregates**[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO 15/ Item no:-2.1.6]								
		Copping Concrete							
	i] Shabari Nagara								
	1st Main	Cum	4.00	100.00	0.20	0.10	8.00		
	1st Cross	Cum	4.00	100.00	0.20	0.10	8.00		
	2nd Cross	Cum	4.00	100.00	0.20	0.10	8.00		
	3rd Cross	Cum	4.00	100.00	0.20	0.10	8.00		
	3rd Cross 2 Roads	Cum	4.00	200.00	0.20	0.10	16.00		
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	4.00	1250.00	0.20	0.10	100.00		
	Hundi Factory Road	Cum	4.00	100.00	0.20	0.10	8.00		
	HDFC Bank Road	Cum	4.00	100.00	0.20	0.10	8.00		
	Rama Temple Road	Cum	4.00	100.00	0.20	0.10	8.00		
	Janatha Colony Roads	Cum	4.00	200.00	0.20	0.10	16.00		
					Sub-Total A		188.00		
	Consider 70%						**131.60**		
	Culvert	Cum	4.00	6.00	0.20	0.10	0.48		
	Culvert Ramp	Cum	4.00	6.00	1.20	0.20	5.76		
	New RCC Culverts	Cum	6.00	6.00	1.80	0.10	6.48		
					Sub-Total B		**12.72**		
					Total A+B		**144.32**	**6867.30**	**991088.74**
	Basic Rate	**6243.00**							
	Add AW 10%	624.30							
	Total	**6867.30**							

7	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, **Drain works** & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.**M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates**[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.2]								
	For New RCC Culvert Bed Concrete								
	For Raft	Cum	6.00	6.00	1.60	0.20	11.52		
	For Side Wall	Cum	12.00	6.00	0.23	0.90	14.90		
					Total		**26.42**	**7650.83**	**202165.53**
	Basic Rate	**6323.00**							
	Add AW 10%	632.30							
	Sub-Total	**6955.30**							
	Centering & Shuttering 10%	695.53							
	Total	**7650.83**							
8	Steel Fabrication,Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-91/ Item no:-2.11.0]								
	Quantity From Item 7[90kg/cum]	Tonne	1.00	26.42		90.00	2378.16		
						Tonne	2.38		
					Total		**2.38**	**86912.10**	**206690.88**
	Basic Rate	**79011.00**							
	Add AW 10%	7901.10							
	Sub-Total	**86912.10**							
9	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete[PWD SR 2023-24/ Volume-2/ Chapter-2/P.NO-177/ Item no:-17.14]								
	New CC Slabs - 100mm								
	Quantity From Damaged/missing Slabs	Sqm	1.00	592.20			592.20		
					Total		**592.20**	**1287.00**	**762161.40**
	Basic Rate	**1170.00**							
	Add AW 10%	117.00							
	Sub-Total	**1287.00**							
10	Providing and fixing 230mm thick pre cast reinforced concrete slab as per design and drawing material cost,transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials(As per data rate)								
	New CC Slabs - 230mm								
	Quantity From Damaged/missing Slabs	Sqm	1.00	27.00			27.00		
					Total		**27.00**	**5037.00**	**135999.00**
	Data Rate	**5037.00**							
	Road								

11	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.In all kinds of soils upto 300 mm depth[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-8/ Item no:-1.12]								
		Edge Cutting/Potholes/Road Damage							
	Byatarayanapura Village								
	Village	Cum	20.00	1.00	1.20	0.20	4.80		
	Railyway Underpass to NH	Cum	1.00	725.00	7.00	0.20	1015.00		
	HDFC Bank Road	Cum	1.00	85.00	6.00	0.20	102.00		
	Liva Hotel Road[YashodaNagar]	Cum	1.00	235.00	7.00	0.20	329.00		
					Sub-Total		1450.80		
	Consider 25% Road Damage						**362.70**		
					Total		**362.70**	**104.50**	**37902.15**
	Basic Rate	**95.00**							
	Add AW 10%	9.50							
	Total	**104.50**							
12	Construction of dry lean **cement concrete Sub- base** over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 14:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 140 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 7 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing[PWD SR 2023-24/ Volume-3/ Chapter-6/P.NO-49/ Item no:-6.1]								
	i] Byatarayanapura Village								
	Village	Cum	20.00	1.00	1.20	0.12	2.88		
	Railyway Underpass to NH	Cum	1.00	400.00	4.50	0.12	216.00		
	Hundi Factory Road	Cum	1.00	25.00	4.00	0.12	12.00		
	Ananda Mane Road	Cum	1.00	56.00	3.00	0.12	20.16		
	Rama Temple Road	Cum	1.00	60.00	4.50	0.12	32.40		
	Ambedkar Colony								
	1st Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	2nd Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	3rd Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	4th Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	5th Cross	Cum	1.00	45.00	2.50	0.15	16.88		
					Total		**367.82**	**5412.00**	**1990614.78**
	Basic Rate	**4920.00**							
	Add AW 10%	492.00							
	Total	**5412.00**							

13	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.[PWD SR 2023-24/ Volume-3/ Chapter-16/P.NO-149/ Item no:-16.28]								
	i] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	1.00	400.00	4.50	0.12	216.00		
	Village	Cum	24.00	1.00	1.20	0.12	3.46		
	Hundi Factory Road	Cum	1.00	25.00	4.00	0.12	12.00		
	Ananda Mane Road	Cum	1.00	56.00	3.00	0.12	20.16		
	Rama Temple Road	Cum	1.00	60.00	4.50	0.12	32.40		
	Ambedkar Colony								
	1st Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	2nd Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	3rd Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	4th Cross	Cum	1.00	45.00	2.50	0.15	16.88		
	5th Cross	Cum	1.00	45.00	2.50	0.15	16.88		
					Total		**368.39**	**7429.40**	**2736924.10**
	Basic Rate	**6754.00**							
	Add AW 10%	675.40							
	Total	**7429.40**							
14	**Wet Mix Macadam** (Plant mix method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density[PWD SR 2023-24/ Volume-3/ Chapter-4/P.NO-26/ Item no:-4.17]								
		Edge Cutting/Potholes/Road Damage							
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	1.00	750.00	7.00	0.15	787.50		
	HDFC Bank Road	Cum	1.00	100.00	6.00	0.15	90.00		
	Liva Hotel Road[YashodaNagar]	Cum	1.00	220.00	7.00	0.15	231.00		
					Sub-Total		1108.50		
	Consider 25% Road Damage						**277.13**		
					Total		**277.13**	**2814.90**	**780079.16**
	Basic Rate	**2559.00**							
	Add AW 10%	255.90							
	Total	**2814.90**							
15	Providing and applying **primer coat** with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. Prime Coat over WMM/WBM[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-29/ Item no:-5.1 A [i]]								
		Edge Cutting/Potholes/Road Damage							

	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	1.00	750.00	7.00		5250.00		
	HDFC Bank Road	Sqm	1.00	100.00	6.00		600.00		
		Sqm			**Sub-Total**		5850.00		
	Consider 25% Road Damage				**Sub-Total A**		**1462.50**		
		Profile Correction							
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	1.00	750.00	7.00		5250.00		
	HDFC Bank Road	Sqm	1.00	100.00	6.00		600.00		
	Liva Hotel Road[YashodaNagar]	Sqm	1.00	150.00	7.00		1050.00		
					Sub-Total		6900.00		
	Consider 20% for Profile Correction				**Sub-Total B**		**1380.00**		
					Total A+B		**2842.50**	**45.10**	**128196.75**
	Basic Rate	**41.00**							
	Add AW 10%	4.10							
	Total	**45.10**							
16	**Tack coat** on Bituminous surface,Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-31/ Item no:-5.3 i]								
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	1.00	750.00	7.00		5250.00		
	HDFC Bank Road	Sqm	1.00	100.00	6.00		600.00		
	Liva Hotel Road[YashodaNagar]	Sqm	1.00	235.00	7.00		1645.00		
					Total		**7495.00**	**13.20**	**98934.00**
	Basic Rate	**12.00**							
	Add AW 10%	1.20							
	Total	**13.20**							
17	**Dense Graded Bituminous Macadam** Grading - II for traffic <20 MSA,Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-35/ Item no:-5.12 (MoRTH Sec 505]								
		Edge Cutting/Potholes/Road Damage							
	Railyway Underpass to NH	Cum	1.00	750.00	7.00	0.05	262.50		
	HDFC Bank Road	Cum	1.00	100.00	6.00	0.05	30.00		
	Liva Hotel Road[YashodaNagar]	Cum	1.00	235.00	7.00	0.05	82.25		
					Sub-Total		374.75		
	Consider 25% Road Damage	Cum			**Sub-Total A**		**93.69**		
		Profile Correction							
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	1.00	750.00	7.00	0.05	262.50		
	HDFC Bank Road	Cum	1.00	100.00	6.00	0.05	30.00		
	Liva Hotel Road[YashodaNagar]	Cum	1.00	150.00	7.00	0.05	52.50		
					Sub-Total		345.00		

	Consider 20% for Profile Correction				**Sub-Total B**		**69.00**		
					Total A+B		**162.69**	**10393.90**	**1690957.61**
	Basic Rate	**9449.00**							
	Add AW 10%	944.90							
	Total	**10393.90**							
18	Providing and laying **Bituminous Concrete** with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site,laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-36/ Item no:-5.16 MoRTH Sec 507]								
	i] Byatarayanapura Village								
	Railyway Underpass to NH	Cum	1.00	750.00	7.00	0.04	210.00		
	HDFC Bank Road	Cum	1.00	100.00	6.00	0.04	24.00		
	Liva Hotel Road[YashodaNagar]	Cum	1.00	235.00	7.00	0.04	65.80		
					Sub-Total		**299.80**	**12049.40**	**3612410.12**
	Basic Rate	**10954.00**							
	Add AW 10%	1095.40							
	Total	**12049.40**							
19	Road Marking with Hot Applied Thermoplastic Compound with Re flectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.[PWD SR 2023-24/ Volume-3/ Chapter-8/P.NO-67/ Item no:-8.15 MoRTH Sec803]								
	i] Shabari Nagara								
	1st Main	Sqm	2.00	100.00	0.10		20.00		
	1st Cross	Sqm	2.00	87.00	0.10		17.40		
	2nd Cross	Sqm	2.00	90.00	0.10		18.00		
	3rd Cross	Sqm	2.00	90.00	0.10		18.00		
	ii] Byatarayanapura Village								
	Railyway Underpass to NH	Sqm	2.50	750.00	0.10		187.50		
	HDFC Bank Road	Sqm	2.00	100.00	0.10		20.00		
	Liva Hotel Road[YashodaNagar]	Sqm	2.00	235.00	0.10		47.00		
					Sub-Total		**327.90**	**583.00**	**191165.70**
	Basic Rate	**530.00**							
	Add AW 10%	53.00							
	Total	**583.00**							
20	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 a]								
	Quantity From Item 3	Cum	1.00	1374.30			1374.30		
	Quantity From Item 11	Cum	1.00	362.70			362.70		
					Total		**1737.00**	**148.50**	**257944.50**
	Basic Rate	**135.00**							
	Add AW 10%	13.50							
	Total	**148.50**							

21	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]								
	Quantity from Item No-1	t.km	1.00	1737.00	1.28		2223.36		
						Total	**2223.36**	**198.00**	**440225.28**
	Basic Rate	**12.00**							
	15KM LEAD [12*15=180]	180.00							
	Add AW 10%	18.00							
	Total	**198.00**							
							Total		16806289.70
							GST 18%		3025132.15
							PMC Charges 1%		168062.90
							Miscelleneous		515.25
							Grand Total		**20000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2022-23 , and Data Rates.

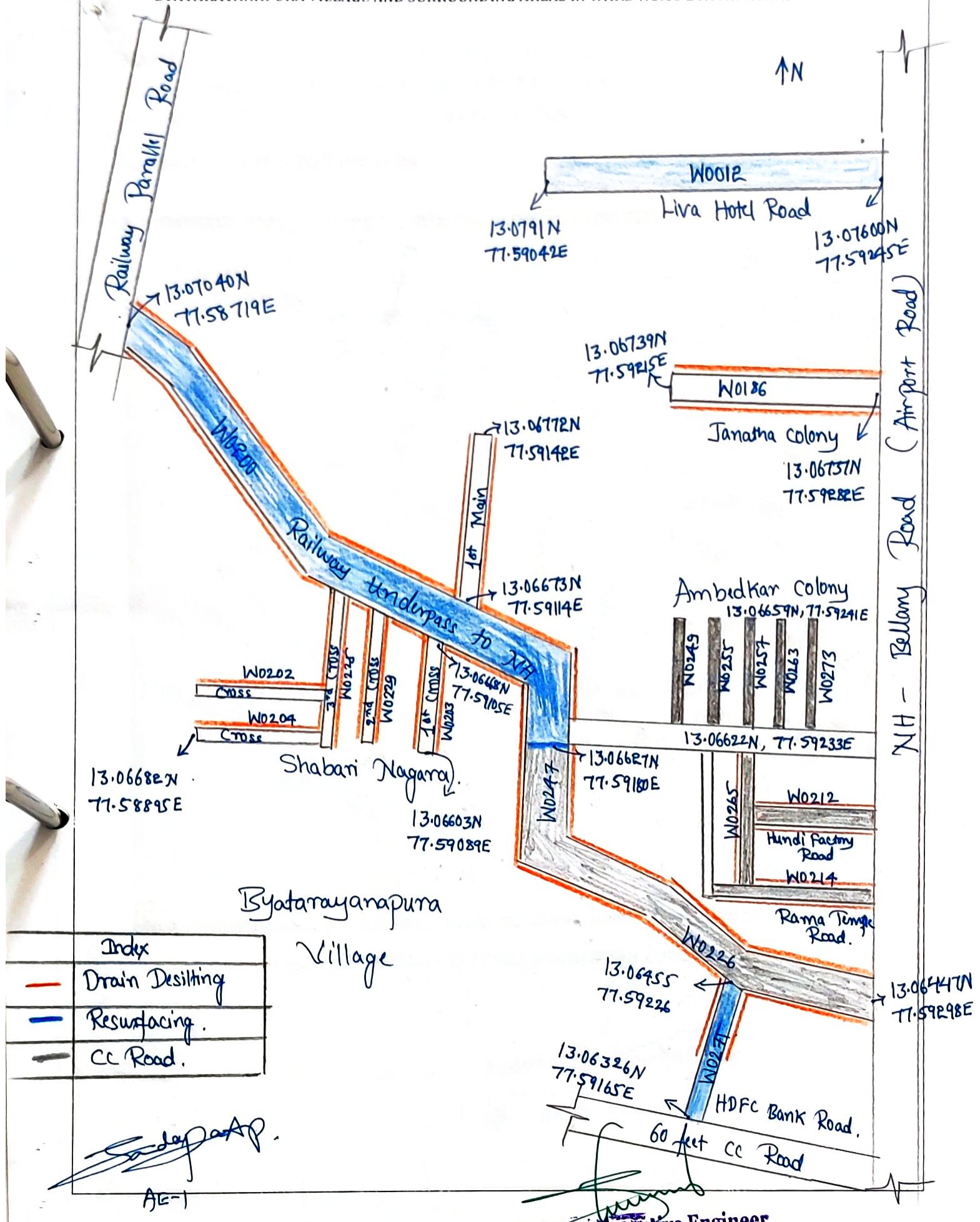
Assistant Engineer
Ward 10, Kodigehalli Sub-Division
BBMP

Asst. Executive Engineer
Kodigehalli Sub-Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA



NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost :- 200.00lakhs

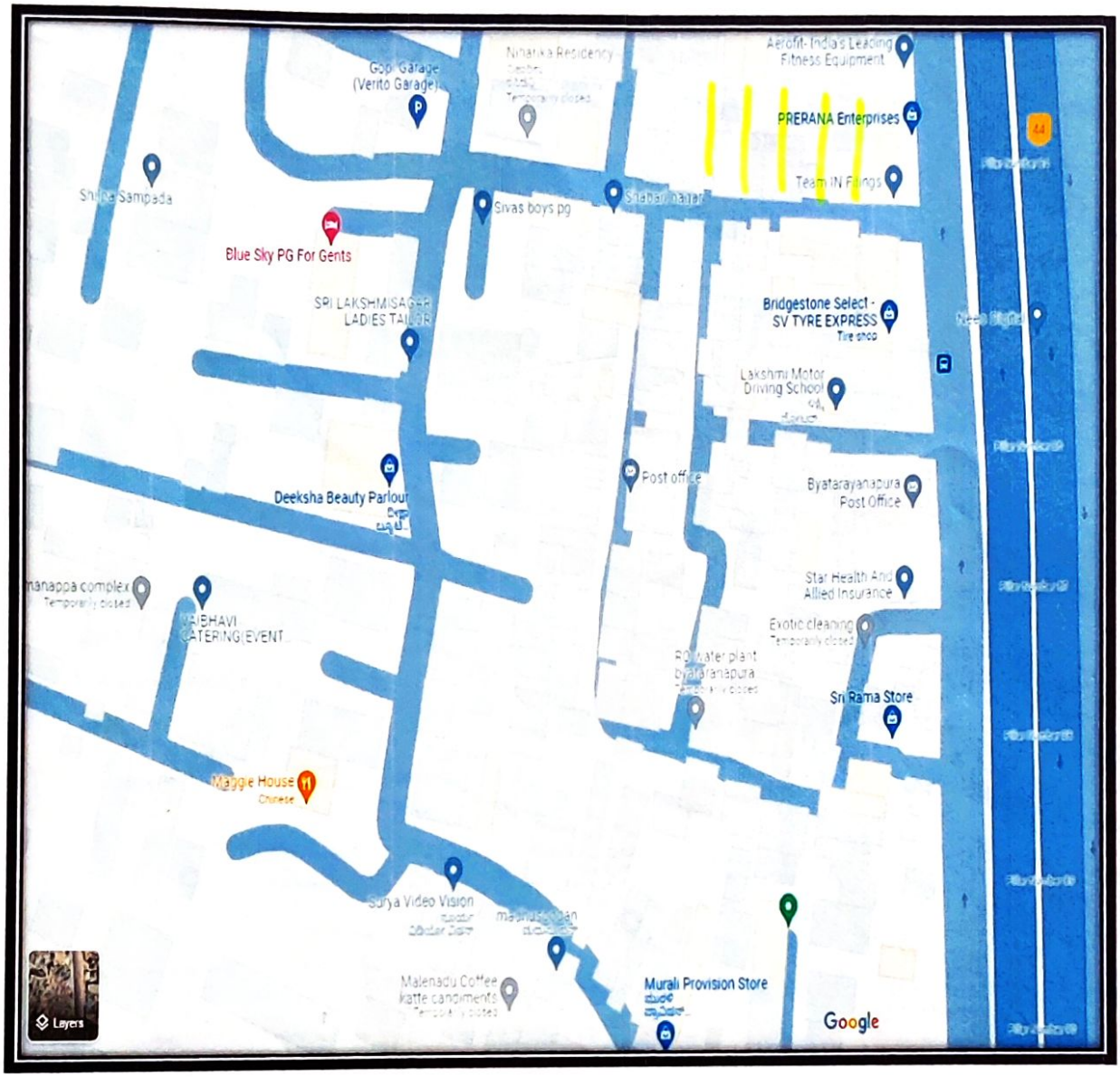


Figure 1 BYATARAYANAPURA [AMBEDKAR COLONY]

Assistant Executive Engineer
Kodigchalli Sub Division
BBMP, Bangalore

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost :- 200.00lakhs

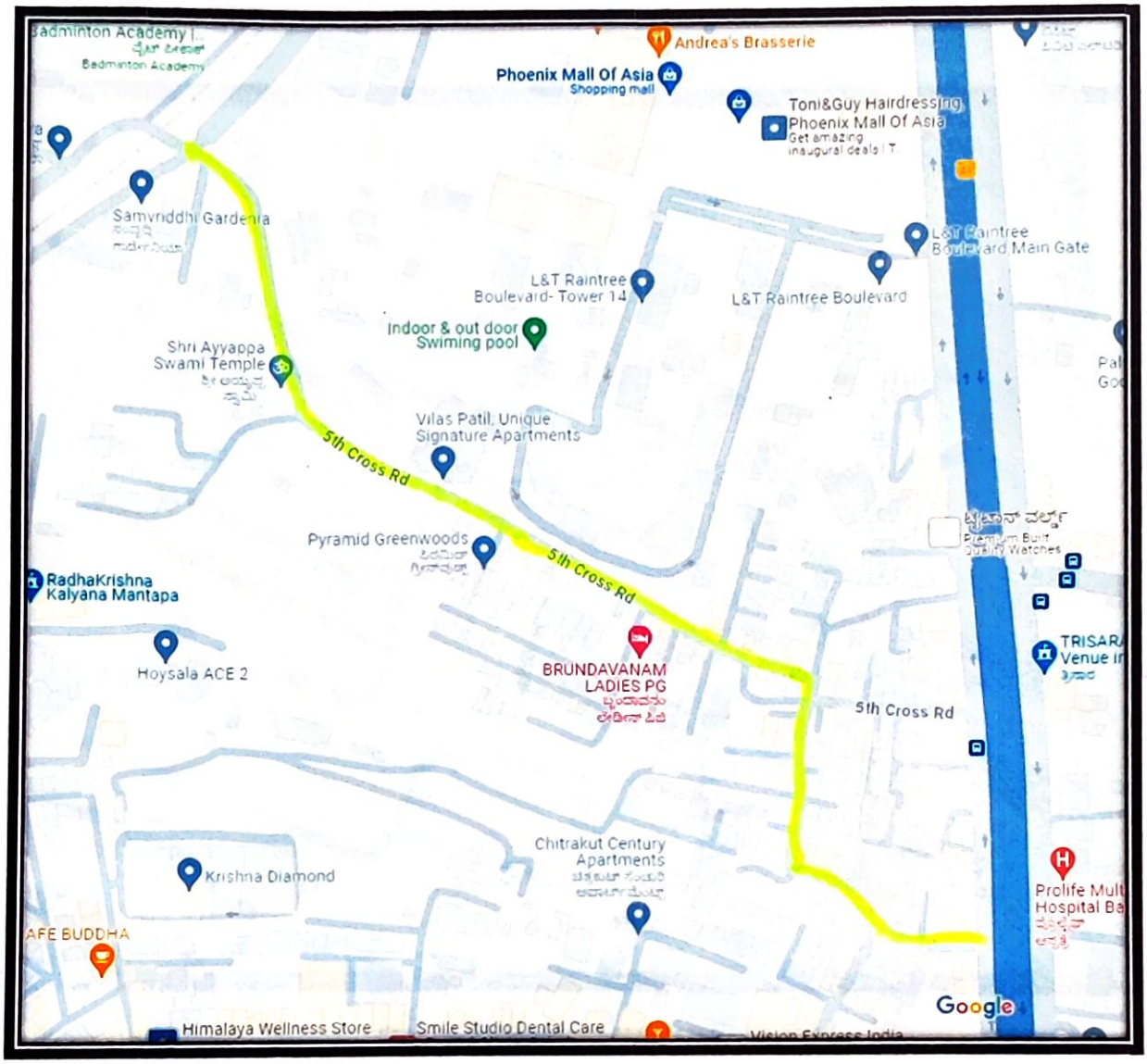


Figure 2 BYATARAYANAPURA VILLAGE

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

NAME OF WORK: - IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA

Estimated Cost :- 200.00lakhs

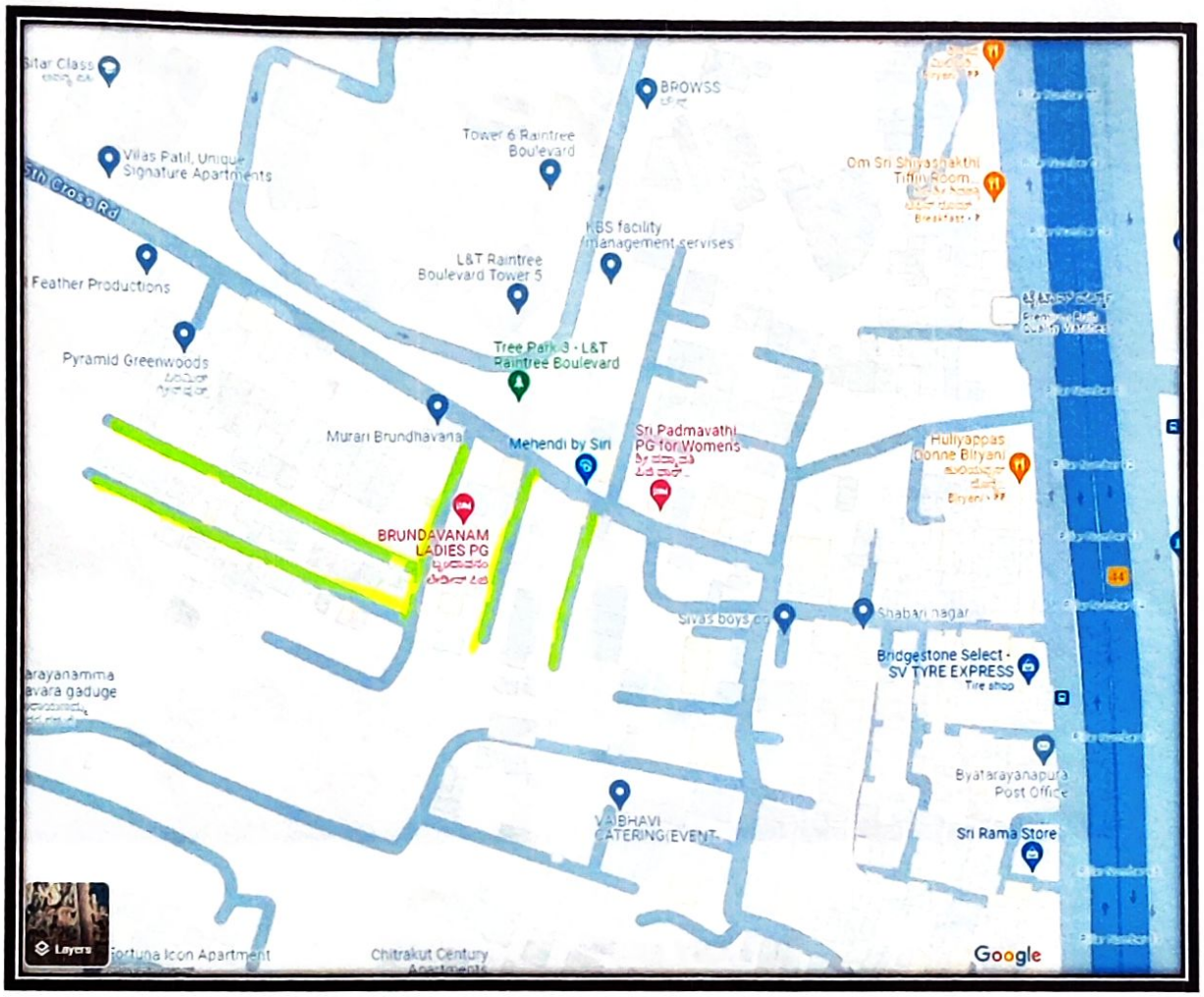


Figure 3 SHABARI NAGARA

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

SL NO	NAME OF WORK	ROAD NAME	ROAD ID	ROAD		STARTING POINT		ENDING POINT	
				LENGTH	WIDTH	LATTITUDE	LONGITUDE	LATTITUDE	LONGITUDE
1	IMPROVEMENTS OF ROADS,DRAINS AND OTHER ALLIED WORKS AT BYATARAYANAPURA VILLAGE AND SURROUNDING AREAS IN WARD NO.10 BYATARAYANAPURA	i] Shabari Nagara							
		1st Main		100.00	4.50	13.06671	77.59114	13.06773	77.59141
		1st Cross	W0203	100.00	4.50	13.06668	77.59106	13.06603	77.59089
		2nd Cross	W0229	100.00	4.50	13.06683	77.59078	13.06613	77.59061
		3rd Cross	W0225	100.00	4.50	13.06698	77.59054	13.06624	77.59031
		3rd Cross 2 Roads	W0202	100.00	4.50	13.06642	77.59032	13.06702	77.58902
			W0204	100.00	4.50	13.06621	77.59025	13.06680	77.58895
		ii] Byatarayanapura Village							
		Railyway Underpass to NH	W0200	750.00	7.00	13.07040N	77.58719E	13.06627N	77.59180E
			W0247 W0226	400.00	4.50	13.06627N	77.59180E	13.06447N	77.59298E
		Hundi Factory Road	W0214	100.00	4.00	13.065962	77.592973	13.066017	77.592405
		ANANDA MANE ROAD	W0265	56.00	3.00	13.066174	77.592437	13.065816	77.592424
		HDFC Bank Road	W0271	100.00	6.00	13.06455N	77.59226E	13.06326N	77.59165E
		Rama Temple Road	W0212	100.00	4.50	13.06576	77.59299	13.06580	77.59239
		Janatha Colony Roads	W0186	200.00		13.06737N	77.59282E	13.06739N	77.59215E
		Liva Hotel Road[YashodaNagar]	W0012	235.00	7.00	13.07600N	77.59245E	13.0791N	77.59042E
		Ambedkar Colony							
		1st Cross	W0273	45.00	2.50	13.0662063	77.592825	13.066579	77.592731
		2nd Cross	W0263	45.00	2.50	13.06621312	77.592598	13.066602	77.592616
		3rd Cross	W0257	45.00	2.50	13.06622108	77.592470	13.066608	77.592484
		4th Cross	W0255	45.00	2.50	13.06624042	77.592324	13.066602	77.592340
		5th Cross	W0249	45.00	2.50	13.06627535	77.592175	13.066635	77.592226

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore